WHAT IS CLAIMED IS:

1. A DNA which encodes a desert hedgehog protein of human origin.

2. The DNA of claim 1, which contains a part or the whole of either the nucleotide sequence of SEQ ID NO:4 or its complementary nucleotide sequence.

3. The DNA of claim 1, which contains a part or the whole of either the nucleotide sequence of SEQ ID NO:5 or its complementary nucleotide sequence.

4. The DNA of claim 1, which contains a part or the whole of either the nucleotide sequence of SEQ ID NO:6 or its complementary nucleotide sequence.

5. The DNA of claim 1, wherein, based on the degeneracy of genetic codes, one or ore nucleotides are replaced with different nucleotides while conserving the encoding amino acid sequence.

6. The DNA of claim 1, which is inserted into an autonomously replicable vector.

7. The DNA of claim 1, which is introduced into an appropriate host.

8. A monoclonal antibody which recognizes a desert hedgehog protein of human origin.

9. The monoclonal antibody of claim 8, which additionally recognizes a Sonic hedgehog protein of human origin.

10. A hybridoma capable of producing a monoclonal antibody which recognizes a desert hedgehog protein of human origin.

11. A protein for producing a hedgehog protein which comprises allowing expression of a DNA that encodes a desert hedgehog protein of human origin, and collecting the generated hedgehog protein.

12. The process of claim 11, wherein the DNA is expressed through culturing of a transformant introduced with a DNA that encodes the hedgehog protein.

13. The process of claim 11, wherein the generated hedgehog protein is collected by salting out, dialysis, filtration, concentration, fractional precipitation, ion-exchange chromatography, gel filtration chromatography, adsorption chromatography, isoelectric focusing chromatography, hydrophobic chromatography, reversed phase chromatography, affinity chromatography, gel electrophoresis and/or isoelectric focusing gel electrophoresis.

14. The process of claim 11, wherein the generated hedgehog protein is collected through immunoaffinity

chromatography using a monoclonal antibody that recognizes a desert hedgehog protein of human origin.

15. A method for detecting a hedgehog protein which comprises bringing a monoclonal antibody which recognizes a desert hedgehog protein of human origin into contact with a sample, and detecting the hedgehog protein based on an immuno reaction.

16. The method of claim 15, wherein the monoclonal antibody is labeled with a radioactive substance, enzyme and/or fluorescent substance.

add (5)
add (3)
add (6)